

10/773,602

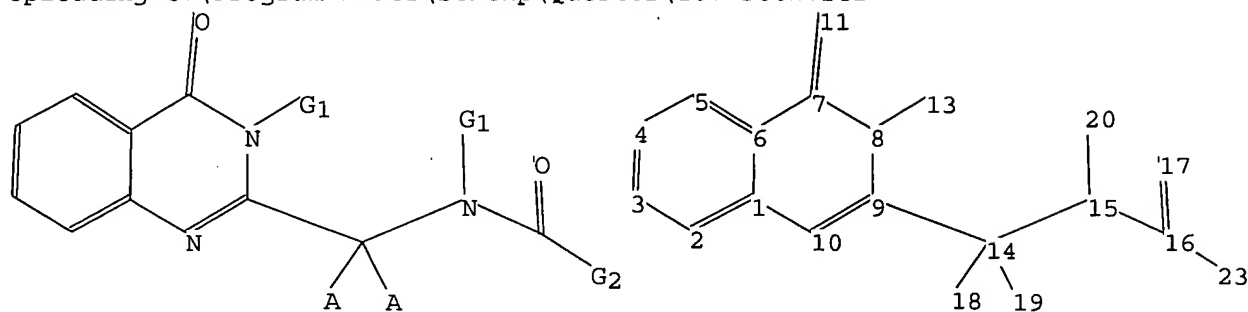
* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:24:32 ON 19 APR 2005

=> file reg

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Uploading C:\Program Files\Stnexp\Queries\10773602.str



chain nodes :

11 13 14 15 16 17 18 19 20 23

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

7-11 8-13 9-14 14-15 14-18 14-19 15-16 15-20 16-17 16-23

ring bonds :

1-2 1-6 1-10 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10

exact/norm bonds :

1-10 6-7 7-8 7-11 8-9 8-13 9-10 14-15 14-18 14-19 15-16 15-20 16-17
16-23

exact bonds :

9-14

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:H,Cy,Ak

G2:H,O,N,Cy,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

20:CLASS 23:CLASS

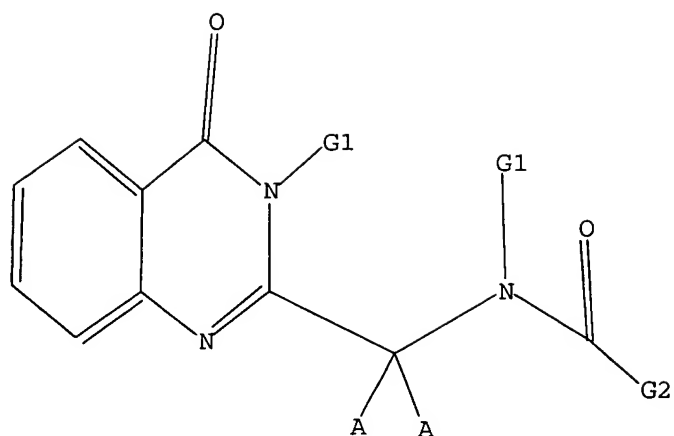
L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

10/773,602



G1 H, Cy, Ak

G2 H, O, N, Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

L3 1 SEA SSS FUL L1

=> file ca

=> s l3

L4 1 L3

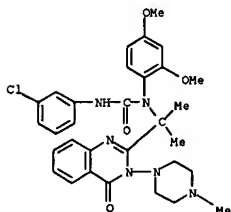
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10/773,602

L4 ANSWER 1 OF 1 CA COPYRIGHT 2005 ACS on STN

L4 ANSWER 1 OF 1 CA COPYRIGHT 2005 ACS on STN (Continued)

ACCESSION NUMBER: 141:325172 CA
TITLE: Quinazolinone-based fungal efflux pump inhibitors.
Part 1: Discovery of an (N-methylpiperazine)-
containing derivative with activity in clinically
relevant Candida spp.
AUTHOR(S): Lemoine, Remy C.; Glinka, Tomasz W.; Watkins, William
J.; Cho, Aesop; Yang, Jessie; Iqbal, Nadeem; Singh,
Rajeshwar; Madsen, Deidre; Lolans, Karen; Lomovskaya,
Olga; Oza, Uma; Dudley, Michael N.
CORPORATE SOURCE: Essential Therapeutics, Inc., Mountain View, CA,
94043, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2004),
14(20), 5127-5131
CODEN: BMCLEB; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The discovery of a series of quinazolinone-based fungal efflux pump
inhibitors by high-throughput screening for potentiation of fluconazole in
C. albicans is described. Attempts to improve the aqueous solubility of
screening
hits led to the discovery of an analog with greatly improved phys.
properties and activity against clin.-relevant Candida spp.
IT 770743-58-3#
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(N-methylpiperazine-containing quinazolinone derivative, efflux pump
inhibitors
in clin. relevant Candida spp.)
RN 770743-58-3 CA
CN Urea, N'-(3-chlorophenyl)-N-[1-[3,4-dihydro-3-(4-methyl-1-piperazinyl)-4-
oxo-2-quinazolinyl]-1-methylethyl]-N-(2,4-dimethoxyphenyl)- (9CI) (CA
INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/773,602

=> file casreact

=> s l1 full

FULL SEARCH INITIATED 09:26:43 FILE 'CASREACT'

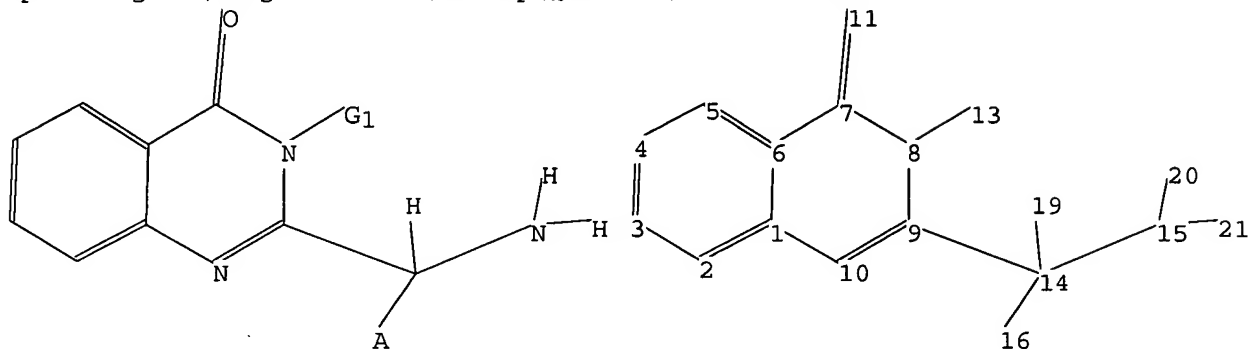
SCREENING COMPLETE - 957 REACTIONS TO VERIFY FROM 59 DOCUMENTS

100.0% DONE 957 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L1 (0 REACTIONS)

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chain nodes :

11 13 14 15 16 19 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

7-11 8-13 9-14 14-15 14-16 14-19 15-20 15-21

ring bonds :

1-2 1-6 1-10 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10

exact/norm bonds :

1-10 6-7 7-8 7-11 8-9 8-13 9-10 14-15 14-16

exact bonds :

9-14 14-19 15-20 15-21

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:H,Cy,Ak

G2:H,O,N,Cy,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 19:CLASS 20:CLASS 21:CLASS

10/773,602

L7 STRUCTURE UPLOADED

=> file reg

=> s 17 full

L9 23 SEA SSS FUL L7

=> file ca

=> s 19

L10 19 L9

=> d ibib abs fhitrstr 1-19

10/773,602

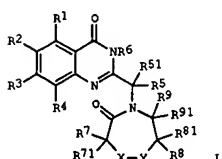
L10 ANSWER 1 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:89125 CA
 TITLE: Preparation of oxodiazepanylquinazolinones as modulators of KSP kinesin activity for treatment of proliferative disease.
 INVENTOR(S): Bergnes, Gustave; Dhanak, Dashyant; Knight, Steven David; Lu, Pu Ping; Morgans, David J., Jr.; Newlander, Kenneth Allen
 PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA; Cytokinetics
 SOURCE: PCT Int. Appl., 69 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004055008	A1	20040708	WO 2003-US39708	20031212

W: AE, AG, AL, AU, BA, BB, BF, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, SC, SG, TN, TT, UA, US, UZ, VN, YU, ZA
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

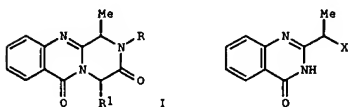
PRIORITY APPL. INFO.: US 2002-433494P P 20021213
 US 2002-435001P P 20021219

OTHER SOURCE(S): MARPAT 141:89125
 GI



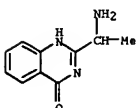
AB Title compds. [I: R1-R4 = H, halo, OH, NO2, cyano, (substituted) alkyl, alkoxy, aryl, heteroaryl, etc.; R5, R51 = H, (substituted) alkyl, aryl, aralkyl, heteroaryl, heteroaralkyl; R5R51C = 3-7 membered carbocyclyl; R6 = H, (substituted) alkyl, aryl, aralkyl, heteroaryl, heteroaralkyl; R7, R71, R8, R81, R9, R91 = H, (substituted) alkyl, aryl, aralkyl, heteroaryl, heteroaralkyl; X, Y = CR10R11, NR12, O, S; R10, R11 = H, (substituted) alkyl, aryl, heteroaryl; R12 = H, (substituted) alkyl, aralkyl, heteroaralkyl, alkylcarbonyl, arylcarbonyl, heteroarylcarbonyl,

L10 ANSWER 2 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:23488 CA
 TITLE: A preparation of pyrazino[2,1-b]quinazolinone derivatives useful as multidrug resistance modulators
 AUTHOR(S): Kokosi, Jozsef; Almási, Janos; Polanyi, Benjamin; Hermez, Istvan
 CORPORATE SOURCE: Gyógyszerezési Kémiai Intézet, Semmelweis Egyetem, Budapest, Russia
 SOURCE: Acta Pharmaceutica Hungarica (2003) 73(1), 29-39
 CODEN: APHGAO; ISSN: 0001-6659
 PUBLISHER: Magyar Gyógyszerezési Társaság
 DOCUMENT TYPE: Journal
 LANGUAGE: Hungarian
 OTHER SOURCE(S): CASREACT 141:23488
 GI



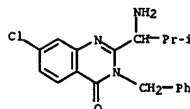
AB An exploration for new MDR-modulators utilizing pyrazino[2,1-b]quinazolinones as scaffolds disclosed after systematic synthetic investigation highly hydrophobic N-substituted derivs. as readily accessible active tricyclic compds. (no biol. data). A versatile synthesis of 2-substituted-1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazolinone-3,6-diones is presented starting from 2,3-substituted quinazolinones. The new compds. have been characterized by elemental analyses, NMR, and in some cases by 13C ruler, and X-ray investigations. For instance, pyrazino[2,1-b]quinazolinone derivative I was prepared via amination of quinazolinone II (X = Br) by RNH2, N-acetylation of the obtained amine II (X = NHR) by YCH(R1)C(O)Y (R1 is H or Me; Y is Cl or Br), and subsequent heterocyclization of the obtained amide II (X = N(R)C(O)C(Y)R1).

IT 172420-42-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of pyrazino[2,1-b]quinazolinone derivs. useful as multidrug resistance modulators)
 RW 172420-42-7 CA
 CN 4(1H)-Quinazolinone, 2-(1-aminoethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 1 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 aralkylcarbonyl, heteroaralkylcarbonyl, alkoxycarbonyl, etc.), were prepd. Thus, N-(2-aminoethyl)-N-[1-(3-benzyl-7-chloro-4-oxo-3,4-dihydroquinazolin-2-yl)-2-methylpropyl]acrylamide (prepn. given) was refluxed overnight in MeOH to give 3-benzyl-7-chloro-2-(2-methyl-1-(7-oxo-1,4-diazepan-1-yl)propyl)-3H-quinazolin-4-one. Some I inhibited cell proliferation with GI50 <10 nM.

IT 336119-88-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of oxodiazepanylquinazolinones as modulators of KSP kinesin activity)
 RN 336119-88-1 CA
 CN 4(3H)-Quinazolinone, 2-(1-amino-2-methylpropyl)-7-chloro-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:139471 CA
 TITLE: Preparation of of quinazolinone-like derivatives to treat cellular proliferative diseases
 INVENTOR(S): Bergnes, Gustave; Smith, Whitney W.; Yao, Bing; Morgans, David J., Jr.; MacDonald, Andrew
 PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
 SOURCE: PCT Int. Appl., 64 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004009036	A2	20040129	WO 2003-US23319	20030723
WO 2004009036	A3	20040819		

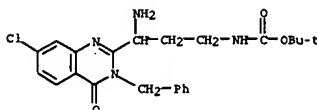
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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPL. INFO.: US 2004142949 A1 20040722 US 2003-626012 20030723
 US 2002-398224P P 20020723

OTHER SOURCE(S): MARPAT 140:139471

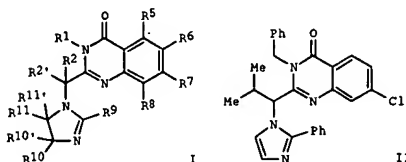
AB The invention relates to quinazolinone-like derivs. that are inhibitors of the mitotic kinesin KSP and are useful in the treatment of cellular proliferative diseases, for example cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders and inflammation. Preparation of 3-benzyl-7-chloro-2-(3-benzyl-2-oxohexahydropyrimidin-4-yl)-3H-quinazolin-4-one is included.

IT 651323-46-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of quinazolinone derivs. to treat cellular proliferative diseases)
 RN 651323-46-5 CA
 CN Carbamic acid, [3-amino-3-[7-chloro-3,4-dihydro-4-oxo-3-(phenylmethyl)-2-quinazolinyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 140:5063 CA
 TITLE: 2-[1-(imidazol-1-yl)alkyl]-3H-quinazolin-4-one derivatives, pharmaceutical compositions containing them, and methods of their use as KSP kinesin inhibitors for the treatment of cellular proliferative diseases
 INVENTOR(S): Feng, Bainian; Bergnes, Gustave; Morgans, David J. C., Jr.; Dhanak, Dashyant; Knight, Steven David; Darcy, Michael Gerard
 PATENT ASSIGNEE(S): Cytokines, Inc., USA; Smithkline Beecham Corporation
 SOURCE: PCT Int. Appl., 97 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

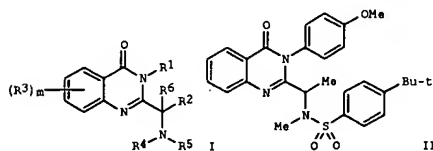
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003097053	A1	20031127	WO 2003-US14787	20030508
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004077668	A1	20040422	US 2003-435069	20030508
PRIORITY APPL. INFO.: MARPAT 140:5063				
OTHER SOURCE(S): US 2002-379531P P 20020509				



AB Comps. useful for treating cellular proliferative diseases and disorders by modulating the activity of KSP (kinesin-like spindle protein), and especially

L10 ANSWER 5 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 139:261313 CA
 TITLE: Quinazolinone amide compounds as modulators of nuclear receptors, particularly farnesoid X receptor (FXR) and/or orphan nuclear receptors, and their preparation, pharmaceutical compositions, and methods of use
 INVENTOR(S): Martin, Richard; Kahl, Jeffery Dean; Platt, Brenton
 PATENT ASSIGNEE(S): X-Ceptor Therapeutics, Inc., USA
 SOURCE: PCT Int. Appl., 204 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

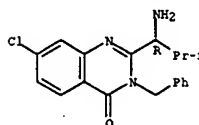
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076418	A1	20030918	WO 2003-US6793	20030304
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EP 1521746	A1	20050413	EP 2003-726031	20030304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPL. INFO.: US 2002-363132P P 20020307				
OTHER SOURCE(S): MARPAT 139:261313				
GI				



AB Comps., pharmaceutical comps., and methods for modulating the activity of nuclear receptors are provided. In particular, amide-containing quinazolinones are provided for modulating the activity of farnesoid X receptor (FXR) and/or orphan nuclear receptors. The disclosed comps. include 1 (n = 0-4); R1 = H, (un)substituted alk(en)ynyl, (hetero)aryl, cycloalkyl(alkyl), (hetero)aralkyl, heterocyclyl(alkyl) (preceding groups designated as group A), OH or derivs., NH2 or derivs.; R2, R6 =

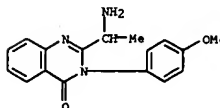
L10 ANSWER 4 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 human KSP, are disclosed (no data). In particular, comps. I are claimed (wherein: R1 = H, (un)substituted alkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl; R2, R2' = H, (un)substituted alkyl, aryl, aralkyl, heteroaryl, or heteroaralkyl; or R2R2' = (un)substituted 3- to 7-membered ring; R5, R6, R7, R8 = H, (un)substituted alkyl or alkoxy, halo, OH, NO2, cyano, dialkylamino, alkylsulfonamido, alkylthio, alkoxyalkyl, carboxamido, aminocarbonyl, (un)substituted alkyl, aryl, heteroaryl, or heteroaralkyl; R9 = H, (un)substituted alkyl, aryl, aralkyl, or heteroaryl; R10, R10' = H, (un)substituted alkyl, aryl, or aralkyl; or R10'R10' = pi bond, including single and mixed stereoisomers and pharmaceutically acceptable salts and/or solvates). Approx. 60 comps. I are described in examples. Comps. I having (R)-configuration at the stereogenic center bearing R2 are preferred for reasons of greater potency than the (S)-isomers. For instance, 2-(1-amino-2-methylpropyl)-3-benzyl-7-chloro-3H-quinazolin-4-one underwent a sequence of N-alkylation at amino with BrCH2CH(OMe)2 and K2CO3 (594), amidation of the resultant secondary amine with PhCOCl and Et3N (544), and deprotection/cyclocondensation with NH4OAc in refluxing AcOH (234) to give invention compd. II. Comps. I are said to be active against human ovarian cancer cells SKOV3 in vitro. Visual inspection revealed that the comps. caused cell cycle arrest in the prometaphase stage of mitosis; DNA was condensed and spindle formation had initiated, but arrested cells uniformly displayed monopolar spindles, indicating that there was an inhibition of spindle pole body sepn.
 IT 336113-57-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; preparation of (imidazolylalkyl)quinazolinone derivs. as KSP kinesin inhibitors for the treatment of cellular proliferative diseases)
 RN 336113-57-6 CA
 CN 4(3H)-Quinazolinone, 2-[(1R)-1-amino-2-methylpropyl]-7-chloro-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 (independently) group A, or R2R6 = (un)substituted alkylene; R4, R5 = (independently) group A, OH or derivs., NH2 or derivs., various acyl, sulfinyl, sulfonyl, or phosphoryl groups, etc.; or R4R5 (un)substituted alkylene, alkenylene, alkenylene(oxy/aza)alkenylene; or any of R2R5, R2R4, R5R6, or R4R6 form 4- to 7-membered, (un)substituted heteroaryl or heterocyclyl group; R3 = (independently) halo, pseudohalo, group A, NH2 or derivs., OH or derivs., SH or derivs., various acyl, thioacyl, imido, sulfinyl, or sulfonyl groups; or adjacent R3R3 = (un)substituted alkylene, alkenylene, alkenediaryloxy, thioalkylenoxy, alkylenedithioxy; including stereoisomers, racemates, mixts., and pharmaceutically acceptable derivs.; with one exception compd.). Over 300 specific comps. were prep'd. and claimed by name. Ten of the most preferred comps. are named. The comps. are useful for treating diseases and disorders selected from: hypercholesterolemia, hyperlipoproteinemia, hypertriglyceridemia, lipodystrophy, hyperglycemia, diabetes mellitus, dyslipidemia, atherosclerosis, gallstone disease, acne vulgaris, acneiform skin conditions, diabetes, Parkinson's disease, cancer, Alzheimer's disease, inflammation, immunol. disorders, lipid disorders, obesity, conditions characterized by a perturbed epidermal barrier function, hyperlipidemia, cholestasis, peripheral occlusive disease, ischemic stroke, obesity, disease states assoc'd. with elevated cholesterol levels, conditions of disturbed differentiation or excess proliferation of the epidermis or mucous membrane, and cardiovascular disorders. For instance, Me anthranilate was N-amidated with 2-chloropropionyl chloride (974), followed by sapon. of the ester (974), and amidation/cyclocondensation of the resultant acid using p-anisidine and PC13 (724), to give 2-(1-chloroethyl)-3-(4-methoxyphenyl)-3H-quinazolin-4-one. This intermediate chloride was amidated with methylamine in THF (994), and the obtained secondary amine was sulfonated with 4-tert-butylbenzenesulfonyl chloride and TEA in DCM (924), to give preferred invention compd. II. In an FRET assay for binding to human FXR (ligand-binding domain, fused to glutathione-S-transferase), II had an EC50 of about 300 nM. In an FXR/ECREX7 co-transfection assay using African green monkey kidney cells, II had an efficacy of 190% relative to high control (chenodeoxycholic acid).
 IT 602318-88-7P, 3-(4-Methoxyphenyl)-2-methylaminomethyl-3H-quinazolin-4-one
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (intermediate and drug candidate; preparation of quinazolinone amides as farnesoid X and/or orphan nuclear receptor modulators)
 RN 602318-88-7 CA
 CN 4(3H)-Quinazolinone, 2-(1-aminoethyl)-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/773,602

L10 ANSWER 6 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 139:214481 CA
 TITLE: Syntheses of enantiomerically pure quinoxalines
 INVENTOR(S): Bergnes, Gustav; Ha, Edward; Yiannikourous, George; Kalaritis, Panos; Yonce, Brandon E.; Welday, Kurt Alan, Jr.
 PATENT ASSIGNEE(S): Cytokinetics, Inc., USA; SmithKline Beecham Corp.
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003070701	A2	20030828	WO 2003-US4713	20030214
WO 2003070701	A3	20031016		
WO 2003070701	B1	20031218		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

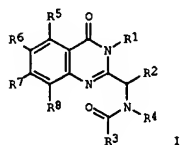
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2475879 A2 20030828 CA 2003-2475879 20030214
 US 2004067969 A1 20040408 US 2003-366828 20030214
 EP 1480980 A2 20041201 EP 2003-709135 20030214

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

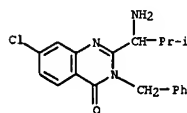
PRIORITY APPL. INFO.:
 US 2002-357244P P 20020215
 US 2002-380746P P 20020514
 WO 2003-US4713 W 20030214

OTHER SOURCE(S): MARPAT 139:214481
 GI



AB The present invention provides intermediates, synthetic methods and novel

L10 ANSWER 6 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)



L10 ANSWER 6 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 quinoxalones (shown as 1, e.g. (R)-N-(3-aminopropyl)-N'-[1-(3-benzyl-7-chloro-4-oxo-3,4-dihydroquinazolin-2-yl)-2-methylpropyl]-4-methylbenzamide) compns. of matter, which are inhibitors of the mitotic kinesin KSP (no data) and are useful in the treatment of cellular proliferative diseases, for example cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders and inflammation (no data); only the compds., compns. of matter and synthetic methods are claimed. The method comprises contacting HO2CCH(R2)NHX (R2 = oxalkyl or (un)substituted alkyl, aryl, alkylaryl, heteroaryl, or alkylheteroaryl; X = H, protecting group (e.g. Boc, CBZ, phthalide, allyloxycarbonyl, 2,2,2-trichloroethoxycarbonyl); e.g. valine) with iso-Bu chloroformate followed by contacting the resulting product with (un)substituted 2-aminobenzoic acids to give 1. Eight example preps. of 1 are included. For example, (S)-[1-(3-benzyl-7-chloro-4-oxo-3,4-dihydroquinazolin-2-yl)-2-methylpropyl]carbamic acid tert-Bu ester was prep'd. starting from N-Boc-L-valine and involving intermediates 2-[1-[(tert-butoxycarbonyl)amino]-L-3-methylbutyl]amino]-4-chlorobenzoic acid, (S)-[1-(7-chloro-4-oxo-4H-benzod[1,3]oxazin-2-yl)-2-methylpropyl]carbamic acid tert-Bu ester, (S)-[1-[(2-benzylcarbamoyl-5-chlorophenyl)imino]methyl]-2-methylpropyl]carbamic acid tert-Bu ester (in mixt. with the final product). In the key step, to 2-[1-[(tert-butoxycarbonyl)amino]-L-3-methylbutyl]amino]-4-chlorobenzoic acid was added 13.2 mL (0.1 mol) of iso-Bu chloroformate over 15 min (internal temp. 5°) followed by the addn. of 11.1 mL (0.1 mol) of anhyd. N-methylmorpholine over 15 min at 0°; the mixt. was stirred for an addnl. hour at 0° to give (S)-[1-(7-chloro-4-oxo-4H-benzod[1,3]oxazin-2-yl)-2-methylpropyl]carbamic acid tert-Bu ester. For 1: R1 is H or (un)substituted alkyl, aryl, alkylaryl, heteroaryl, or alkylheteroaryl; R3 is H, oxalkyl, R9O-, R9NH- or (un)substituted alkyl, aryl, alkylaryl, heteroaryl, alkylheteroaryl, or oxalkylaryl; R4 is H or (un)substituted alkyl, aryl, alkylaryl, heteroaryl, or alkylheteroaryl; R5, R6, R7 and R8 = H, hydroxy, (un)substituted alkyl, alkoxy, halogen, fluoroalkyl, nitro, cyano, amino, alkylamino, dialkylamino, alkylsulfonyl, alkylsulfonamido, sulfonamidoalkyl, sulfonamidoaryl, alkylthio, carbonylalkyl, carbonylamido, aminocarbonyl, aryl or heteroaryl; and R9 is (un)substituted alkyl, aryl, alkylaryl, heteroaryl, or alkylheteroaryl. The compns. of matter comprise 1 and detectable amts. of 21 unreacted starting materials and/or a cyclo-dehydration reagent; they are claimed, presumably because it is important to monitor the purity of pharmaceutical compds. for the presence of such materials, which presence comprises a way of detecting use of a process of the invention.

IT 336119-88-1P, 2-(1-Amino-2-methylpropyl)-3-benzyl-7-chloro-3H-quinazolin-4-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (resolutions) syntheses of enantiomerically pure quinoxalines)

RN 336119-88-1 CA
 CN 4 (3H)-Quinoxalinone, 2-(1-amino-2-methylpropyl)-7-chloro-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

L10 ANSWER 7 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 137:337912 CA
 TITLE: Preparation of purinylquinoxalines as inhibitors of human phosphatidylinositol 3-kinase delta
 INVENTOR(S): Sadhu, Chanchal; Dick, Ken; Treiberg, Jennifer; Sowell, C. Gregory; Kesicki, Edward A.; Oliver, Amy
 PATENT ASSIGNEE(S): ICOS Corp., USA
 SOURCE: U.S. Pat. Appl. Publ., 86 pp., Cont.-in-part of U.S. Ser. No. 841,341.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002161014	A1	20021031	US 2001-27591	20011019
US 6667300	B2	20031223		
US 6518277	B1	20030211	US 2001-841341	20010424
WO 2003035075	A1	20030501	WO 2002-US27240	20020827

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

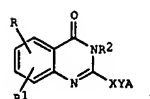
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1438052 A1 20040721 EP 2002-757407 20020827
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

JP 200509635 T2 20050414 JP 2003-537642 20020827
 ZA 2002008698 A 20031010 ZA 2002-8698 20021028
 US 2003195211 A1 20031016 US 2003-337192 20030106
 US 6800620 B2 20041005
 US 2004266780 A1 20041230 US 2003-697912 20031030
 US 2000-199655P P 20000425
 US 2000-238057P P 20001005
 US 2001-841341 A2 20010424
 US 2001-27591 A 20011019
 WO 2002-US27240 W 20020827

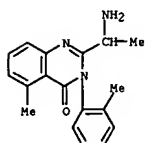
PRIORITY APPL. INFO.:
 US 2000-199655P P 20000425
 US 2000-238057P P 20001005
 US 2001-841341 A2 20010424
 US 2001-27591 A 20011019
 WO 2002-US27240 W 20020827

OTHER SOURCE(S): MARPAT 137:337912
 GI

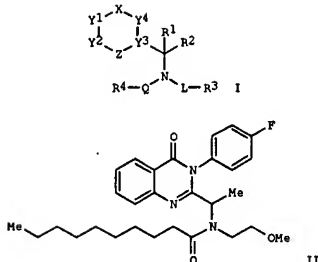


AB A method of disrupting leukocyte function comprises administration of

L10 ANSWER 7 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 title compds. [I; X = C(Rb)2, CH2CHRb, CH:CRb; Rb = H, alkyl, heteroalkyl, aryl, heteroaryl, aralkyl, etc.; Y = null, S, SO, SO2, NH, O, CO, CO2, NHCOCH2S; R, R1 = H, alkyl, aryl, heteroaryl, halo, etc.; R2 = atoms to form a 3-4 membered alkylene, alkenylene chain; R2 = H, (substituted) alkyl, cycloalkyl, heterocycloalkyl, alkenylene, alkenyl, alkenylenearyl, aryl, heteroaryl, etc.; A = (substituted) mono- or bicyclic ring system contg. ≥2 N atoms and in which ≥1 ring is arom.]. Thus, dose-dependent decrease in histamine release from basophils when stimulated with anti-IgE was 100% at 1,000 nM, with an EC50 of about 25 nM for I (Y = S, R = 5-Me, R1 = H, R2 = 2-ClC6H4, R3 = H; 5 connected to 6-position of purine ring; prepn. given).
 IT 371244-09-6P, 4(3H)-Quinazolinone, 2-(1-aminoethyl)-5-methyl-3-(2-methylphenyl)-
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of purinylquinazolinones as inhibitors of human phosphatidylinositol 3-kinase delta)
 RN 371244-09-6 CA
 CN 4(3H)-Quinazolinone, 2-(1-aminoethyl)-5-methyl-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 8 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)



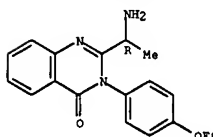
AB Title compds. I [wherein X = a bond, CO, CR5R6, CR5; SO, SO2, or N; Z = a bond, N, O, S, NR17, or CR7; with the proviso that X and Z are not both a bond; L = CO-alkylene or (hetero)alkylene; Q = (hetero)alkylene, CO, OCO, NR8CO, CH2CO, CH2SO, or CH2SO2; or NLQ = heterocyclyl; R1 and R2 = independently H, (hetero)alkyl, or (hetero)aryl; or CR1R2 = (hetero)cyclyl; or CNR2L = heterocyclyl; R3 = OH, alkoxy, NH2, (di)alkylamino, heteroalkyl, heterocyclyl, acylaminoamido, guanidino, ureido, CN, heteroaryl, carbamoyl, or carboxy; R4 = (hetero)alkyl, (hetero)aryl, etc.; R5 and R6 = independently H, (hetero)alkyl, or (hetero)aryl; or CR5R6 = a ring; R7 and R8 = independently H, (hetero)alkyl, or (hetero)aryl; Y1 and Y2 = independently CR12: N, O, S, or NR13; Y3 = N or C, wherein C shares a double bond with either Z or Y4; Y4 = NR14, CR14; N, NR14CR15R16; R12 = H, halo, OH, NH2, (di)alkylamino, (hetero)alkyl, or (hetero)aryl, with provisos; R13 = H, (hetero)alkyl, (hetero)aryl, etc.; R14 = (hetero)alkyl, (hetero)aryl, etc.; R15 and R16 = independently H or (hetero)alkyl; R17 = H, (hetero)alkyl, (hetero)aryl, etc., with provisos] were prepared as chemokine receptor modulators, in particular CXCR3 antagonists. For example, anthranilic acid was acylated with propionyl chloride and the amide cyclized using acetic anhydride to give 2-ethylbenzo[d][1,3]oxazine-4-one. Treatment with 4-fluorophenyl, followed by ethylene glycol and NaOH afforded 2-ethyl-3-(4-fluorophenyl)-3H-quinazolin-4-one. Bromination and stepwise addition of 1-amino-2-methoxyethane and decanoyl chloride produced the decanoic acid (quinazolinylethyl) (methoxyethyl)amide II. Approx. one third of the 101 invention compds. tested in a CXCR3 binding assay displayed activity with IC50 values of < 1 μM. I are useful for the treatment of inflammatory and immunoregulatory disorders and diseases, such as multiple sclerosis, rheumatoid arthritis, and type I diabetes (no data).
 IT 473720-85-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of N-(heteroarylalkyl)acylamides as CXCR3 antagonists for treatment of inflammatory or immune conditions)
 RN 473720-85-3 CA
 CN 4(3H)-Quinazolinone, 2-[(1R)-1-aminoethyl]-3-(4-ethoxyphenyl)- (9CI) (CA INDEX NAME)

L10 ANSWER 8 OF 19 CA COPYRIGHT 2005 ACS on STN
 137:337907 CA
 TITLE: Preparation of N-(heteroarylalkyl)acylamides as CXCR3 antagonists for treatment of inflammatory or immune conditions
 INVENTOR(S): Medina, Julio C.; Johnson, Michael G.; Li, An-Rong; Liu, Jiven; Huang, Alan Xi; Zhu, Liusheng; Marcus, Andrew P.
 PATENT ASSIGNEE(S): Tularik Inc., USA
 SOURCE: PCT Int. Appl., 205 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083143	A1	20021024	WO 2001-US47850	20011211
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZH, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
CA 2431553	AA	20021024	CA 2001-2431553	20011211
US 2002169159	A1	20021114	US 2001-15532	20011211
EP 1343505	A1	20030917	EP 2001-273533	20011211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004536796	T2	20041209	JP 2002-580947	20011211
US 2003069234	A1	20030410	US 2002-164690	20020606
US 6794379	B2	20040921		
US 2003055054	A1	20030320	US 2002-231895	20020829
NO 2003002612	A	20030805	NO 2003-2612	20030610
US 2005075333	A1	20050407	US 2004-946935	20040921
PRIORITY APPL. INFO.:				
US 2000-255241P P 20001211				
US 2001-296499P P 20010606				
US 2001-15532 A1 20011211				
WO 2001-US47850 W 20011211				
US 2002-164690 A1 20020606				

OTHER SOURCE(S): HARPAT 137:337907
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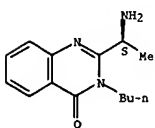
L10 ANSWER 8 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/773,602

L10 ANSWER 9 OF 19 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 137:63215 CA
 TITLE: Traceless synthesis of 3H-quinazolin-4-ones via a combination of solid-phase and solution methodologies
 AUTHOR(S): O'Mahony, Donogh J. R.; Krchnak, Viktor
 CORPORATE SOURCE: SIDCO, Inc., Tucson, AZ, 85747, USA
 SOURCE: Tetrahedron Letters (2002), 43(6), 939-942
 CODEN: TELEAV; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:63215
 AB A solid-phase traceless synthesis of 4-quinazolinones is described. An aldehyde functionalized resin was reductively aminated with primary amines, and the resin-bound secondary amine acylated with o-nitro-benzoic acids. The nitro group was reduced with tin(II) chloride, and the aniline acylated with acid anhydrides. Acidolytic cleavage afforded a diamide, which was cyclized in solution phase to the 4(3H)-quinazolinone removing the trace of the linker. Com. available polymer-bound 4-(4-formyl-3-methoxyphenyl)-N-methylbutanamide was reductively aminated with 4-morpholinopropanamine, benzenemethanamine, 1-butanamine, 3-pyridinemethanamine or benzenemethanamine. The subsequent acylation of the intermediate amine was carried out using 2-nitrobenzoic acid, 5-(acetylamino)-2-nitrobenzoic acid or 4,5-dimethoxy-2-nitrobenzoic acid.
 IT 439862-07-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (traceless synthesis of 3-aryl-2-alkyl-4(3H)-quinazolinone derivs. via solid-phase and solution-phase methods)
 RN 439862-07-4 CA
 CN 4(3H)-Quinazolinone, 2-[(1S)-1-aminoethyl]-3-butyl- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



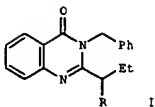
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 19 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 136:53759 CA
 TITLE: Preparation of N-acylquinazolinonealkylamines as KSP
 INVENTOR(S): kinasin inhibitors
 FINER, Jeffrey T.; Bergnes, Gustav; Feng, Bainian; Smith, Whitney W.; Chabala, John C.; Morgans, David J., Jr.
 PATENT ASSIGNER(S): Cytokinetics, Inc., USA
 SOURCE: PCT Int. Appl., 179 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

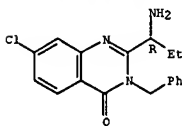
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001098278	A1	20011227	WO 2001-US13901	20010427
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6545004	B1	20030408	US 2000-699047	20001024
JP 2003048981	A2	20030221	JP 2002-156766	20001026
US 6562831	B1	20030513	US 2000-724644	20001128
US 6630479	B1	20031007	US 2000-724713	20001128
US 6831085	B1	20041214	US 2000-724941	20001128
CA 2413426	AA	20011227	CA 2001-2413426	20010427
EP 1296959	A1	20030402	EP 2001-932769	20010427
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011898	A	20030513	BR 2001-11898	20010427
JP 20040501140	T2	20040115	JP 2002-504234	20010427
NZ 523233	A	20041029	NZ 2001-523233	20010427
ZA 2002010133	A	20030617	ZA 2002-10133	20021213
NO 2002006172	A	20030220	NO 2002-6172	20021220
US 2004023996	A1	20040205	US 2003-312323	20030815
US 2004254203	A1	20041216	US 2004-893929	20040720
PRIORITY APPLM. INFO.:			US 2000-213104P	P 20000621
			US 2000-699047	A 20001024
			US 1999-198253P	P 19991027
			JP 2001-533122	A3 20001026
			US 2000-724941	A3 20001128
			WO 2001-US13901	W 20010427

OTHER SOURCE(S): MARPAT 136:53759
 GI

L10 ANSWER 10 OF 19 CA COPYRIGHT 2005 ACS ON STN (Continued)



AB R1CR2R2'NRR4 [I; R = H, COR3, SO2R3', CH2R3'; R1 = (un)substituted 3,4-dihydro-4-oxoquinazolin-2-yl; R2,R2' = H, (oxa)alkyl, (hetero)aryl, etc.; R3 = H, alkyl, alkoxy, (hetero)aryl, etc.; R3',R4 = H, alkyl, (hetero)aryl, etc.; R3'' = alkyl, (hetero)aryl, etc.] were prepared. Thus, 2-(H2N)C6H4CO2H was amidated by R1COCl and the cyclized product cyclodecondensed with PhCH2NH2 to give, after bromination, quinazolinone II (R = Br) which was converted in 2 steps to I [R = N(COC6H4F-4)CH2CH2NMe2]. Data for biol. activity of I were given.
 IT 336113-55-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of N-acylquinazolinonealkylamines as KSP kinesin inhibitors)
 RN 336113-55-4 CA
 CN 4(3H)-Quinazolinone, 2-[(1R)-1-aminopropyl]-7-chloro-3-(phenylmethyl)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

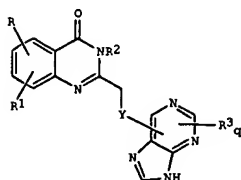


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 19 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 135:357937 CA
 TITLE: Quinazolinone derivatives as inhibitors of human phosphatidylinositol 3-kinase delta
 INVENTOR(S): Sadhu, Chanchal; Dick, Ken; Treiberg, Jennifer; Sowell, C. Gregory; Kesicki, Edward A.; Oliver, Amy
 PATENT ASSIGNER(S): Icos Corporation, USA
 SOURCE: PCT Int. Appl., 278 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

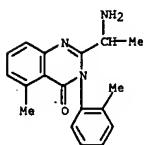
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081346	A2	20011101	WO 2001-US13315	20010424
WO 2001081346	A3	20020321		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2406278	AA	20011101	CA 2001-2406278	20010424
EP 1278748	A2	20030129	EP 2001-928855	20010424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 20011010371	A	20030617	BR 2001-10371	20010424
JP 2003531209	T2	20031021	JP 2001-578436	20010424
NO 2002005104	A	20021210	NO 2002-5104	20021024
ZA 2002008698	A	20031010	ZA 2002-8698	20021026
PRIORITY APPLM. INFO.:			US 2000-199655P	P 20000425
			US 2000-238057P	P 20001005
			WO 2001-US13315	W 20010424

OTHER SOURCE(S): MARPAT 135:357937
 GI

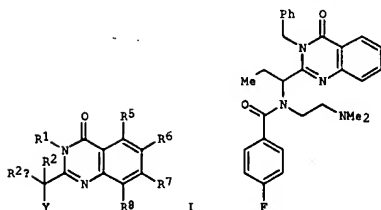


AB Methods of inhibiting phosphatidylinositol 3-kinase delta isoform

L10 ANSWER 11 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)
 (PI3K) activity, and methods of treating diseases, such as disorders of immunity and inflammation, in which PI3K plays a role in leukocyte function are claimed. Preferably, the methods employ active agents that selectively inhibit PI3K, while not significantly inhibiting activity of other PI3K isoforms. Compds. are provided that inhibit PI3K activity, including compds. that selectively inhibit PI3K activity. The compds. claimed are all quinazolin-4-one derivs., including I (Y = null, S, NH; R = H, halo, OH, OMe, Me, CF₃; R₁ = H, OMe, halo; R₂ together with C-6 and C-7 of quinazolinone ring define a 5- or 6-membered aro. ring optionally contg. ≥ 1 O, N or S; R₃ = Cl-6 alkyl, Ph, halophenyl, alkylphenyl, biphenyl, PhCH₂, pyridinyl, 4-methylpiperazinyl, CO₂Et, morpholinyl; R₃ = NH₂, halo, Cl-3 alkyl, S(Cl-3 alkyl), OH, NH(Cl-3 alkyl), N(Cl-3 alkyl)₂, NH(Cl-3 alkyl)enaphenyl; q = 1, 2) and pharmaceutically acceptable salts and solvates thereof. Methods of using PI3K inhibitory compds. to inhibit cancer cell growth or proliferation are also provided. Accordingly, the invention provides methods of using PI3K inhibitory compds. to inhibit PI3K-mediated processes in vitro and in vivo. Thus, in an example, dose-dependent decrease in histamine release from basophils when stimulated with anti-IgE was 100% at 1,000 nM, with an EC₅₀ of about 25 nM for I (Y = S, R = S-Me, R₁ = H, R₂ = 2-ClC₆H₄, R₃ = H; S connected to 6-position of purine ring; prepn. given).
 IT 371244-09-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and substitution reaction of, with chloropurine derivs.)
 RN 371244-09-6 CA
 CN 4 (3H)-Quinazolinone, 2-(1-aminoethyl)-5-methyl-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 12 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)



AB Quinazolinones (I) (wherein R₁ = H, alkyl, (hetero)aryl, or (un)substituted alkyl(hetero)aryl; R₂ and R_{2a} = independently H or (un)substituted (oxa)alkyl, (hetero)aryl, or alkyl(hetero)aryl; Y = NR₄CO₂R_{3a}, NR₄CH₂R_{3b}, or NHR₄; R₃ = H, oxaalkyl, or (un)substituted alkyl, (hetero)aryl, alkyl(hetero)aryl, oxaalkylaryl, ether, or amino; R_{3a} = H or (un)substituted alkyl, (hetero)aryl, alkyl(hetero)aryl, or amino; R_{3b} = (un)substituted alkyl, (hetero)aryl, or alkyl(hetero)aryl; R₄ = H or (un)substituted alkyl, (hetero)aryl, alkyl(hetero)aryl, or alkylene; R₅-R₈ = independently H, (fluoro)alkyl, alkoxy, halo, NO₂, dialkylamino, alkylsulfonyl, alkylsulfonamido(alkyl or aryl), alkylthio, carboxyalkyl, carboxamido, aminocarbonyl, or (hetero)aryl) were prepared by conventional and solid phase combinatorial synthetic methods as KSP kinesin inhibitors for treatment of cellular proliferative diseases. For example, II was synthesized in a 6-step sequence involving (1) amidation of anthranilic acid with butyryl chloride (65%), (2) cyclization to give 2-propyl-3,1-[4H]benzoxazin-4-one (62%), (3) treatment with PhCH₂NH₂ to give 2-propyl-3-benzylquinazolin-4-one (67%), bromination (92%), addition of N,N-dimethylethylenediamine (55%), and (6) amidation with p-fluorobenzoyl chloride (65%). I are useful for treating cancer, hyperplasia, restenosis, cardiac hypertrophy, immune disorders, and inflammation (no data). Methods of screening for compds. that will bind to a KSP kinesin or are modulators of KSP kinesin activity are also disclosed.

IT 336113-55-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of quinazolinone KSP kinesin modulators via conventional and solid phase combinatorial synthetic methods)
 RN 336113-55-4 CA
 CN 4 (3H)-Quinazolinone, 2-[(1R)-1-aminopropyl]-7-chloro-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

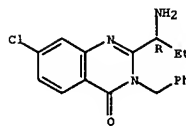
Absolute stereochemistry.

L10 ANSWER 12 OF 19 CA COPYRIGHT 2005 ACS on STN
 134:326543 CA
 ACCESSION NUMBER: 134:326543 CA
 TITLE: Methods and compositions utilizing quinazolinones as KSP kinesin modulators
 INVENTOR(S): Finer, Jeffrey T.; Bergnes, Gustave; Feng, Bainian; Smith, Whitney W.; Chabala, John C.
 PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
 SOURCE: PCT Int. Appl., 168 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001030768	A1	20010503	WO 2000-US29585	20001026
WO 2001030768	C2	20020815		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2388646	AA	20010503	CA 2000-2388646	20001026
BR 2000015110	A	20020702	BR 2000-15110	20001026
EP 1226129	A1	20020731	EP 2000-976656	20001026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003048881	A2	20030221	JP 2002-156766	20001026
JP 2003512461	T2	20030402	JP 2001-533122	20001026
NZ 518480	A	20040227	NZ 2000-518480	20001026
AU 774748	B2	20040708	AU 2001-14398	20001026
US 6562931	B1	20030513	US 2000-724644	20001128
US 6630479	B1	20031007	US 2000-724713	20001128
US 6831085	B1	20041214	US 2000-724941	20001128
ZA 2002002930	A	20021028	ZA 2002-2930	20020415
NO 2002001907	A	20020607	NO 2002-1907	20020423
ZA 2002010133	A	20030617	ZA 2002-10133	20021213
US 2004254203	A1	20041216	US 2004-893929	20040720
PRIORITY APPLN. INFO.:			US 1999-198253P	F 19991027
			US 2000-213104P	F 20000621
			US 2000-699047	A1 20001024
			JP 2001-533122	A3 20001026
			WO 2000-US29585	W 20001026
			US 2000-724941	A3 20001128

OTHER SOURCE(S): MARPAT 134:326543
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L10 ANSWER 12 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 19 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
TITLE:130:38348 CA
Nitrogen bridgehead compounds. Part 90. An efficient
versatile synthesis of 1-methyl-2-substituted
1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazoline-3,6-
diones

AUTHOR(S):

Kokosi, Jozsef; Almási, Janos; Podanyi, Benjamin;
Fehér, Miklos; Bocskai, Zsolt; Simon, Kálmán; Hermecz,
István

CORPORATE SOURCE:

Institute for Pharmaceutical Chemistry Semmelweis

SOURCE:

University of Medicine, Budapest, 1052, Hung.

PUBLISHER:

Heterocycles (1998), 48(9), 1851-1866

DOCUMENT TYPE:

CODEN: HETCYM; ISSN: 0385-5414

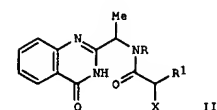
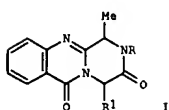
LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 130:38348

GI



AB A versatile synthesis of 2-substituted 1-methyl- and 1,4-dimethyl-1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazoline-3,6-diones I (R = H, Et, Ph, etc., R1 = H, Me) is presented, starting from 2-(1-bromoethyl)quinazolin-4(3H)-one. The key step of the reaction sequence is the diastereoselective cyclization of 2-([1-(N-2-haloacyl)-N-substituted amino]ethyl)quinazolin-4(3H)-ones II (R1 = H, X = Cl; R1 = Me, X = Br). Usually 1,4-di-Me derivs. are obtained as pure racemic cis-compds. (2-alkyl and 2-benzyl derivs.), or a mixture of diastereomers, containing

the 4-Me group in quasi-axial position.

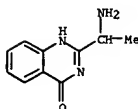
IT 172420-42-7F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of methylpyrazinoquinazolinones)

RN 172420-42-7 CA

CN 4(1H)-Quinazolinone, 2-(1-aminoethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 19 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

128:257597 CA

TITLE:

Total Synthesis of the Quinazoline Alkaloids

AUTHOR(S):

(-)-Fumiquinazoline G and (-)-Fiscalin B

CORPORATE SOURCE:

Wang, Haishan; Ganesan, A.

SOURCE:

Institute of Molecular and Cell Biology, National

University of Singapore, Singapore, 117609, Singapore

Journal of Organic Chemistry (1998), 63(8), 2432-2433

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 128:257597

GI

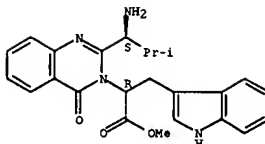
L10 ANSWER 13 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT:

29

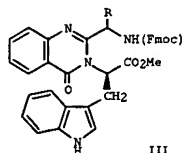
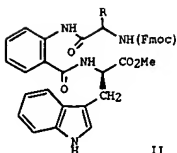
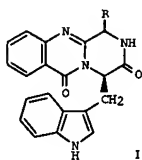
THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT:

22

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB (-)-Fumiquinazoline G (I; R = β -Me) and (-)-fiscalin B (I; R = α -CHMe2) were synthesized in four and five steps resp. from D-tryptophan Me ester. The key transformation involved dehydrative cyclization of linear tripeptides II (Fmoc = 9-fluorenylmethoxycarbonyl, R = β -Me, α -CHMe2, resp.) to quinazolin-4-ones III. The methodol. is also applicable to the synthesis of quinazolinones with sterically bulky 2,3-substitution.

IT 205042-99-5F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

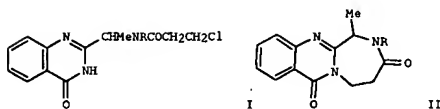
(total synthesis of the quinazoline alkaloids fumiquinazoline G and fiscalin B from D-tryptophan Me ester)

RN 205042-99-5 CA

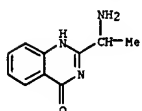
CN 3(4H)-Quinazolinoneacetic acid, 2-(1-amino-2-methylpropyl)- α -(1H-indol-3-ylmethyl)-4-oxo-, methyl ester, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

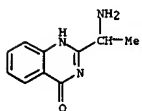
L10 ANSWER 15 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 125:328537 CA
 TITLE: Synthesis and cyclization of new quinazolone derivatives to [1,4]oxazepino- and [1,4]diazepino[3,4-b]quinazolones
 AUTHOR(S): Szabo, Monika; Orfi, Laszlo; Kokosi, Jozsef; Hermecz, Istvan; Kovacs, Attila
 CORPORATE SOURCE: Semmelweis Orvostudományi Egyetem, Gyógyszertészeti Kémiai Intézet, Budapest, 1092, Hung.
 SOURCE: Magyar Kémiai Folyóirat (1996), 102(8), 343-355
 CODEN: MGIFA3; ISSN: 0025-0155
 PUBLISHER: Magyar Kémikusok Egyesülete
 DOCUMENT TYPE: Journal
 LANGUAGE: Hungarian
 GI



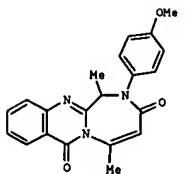
AB Original routes have been developed for the synthesis of new heterocondensed quinazolones: [1,4]oxazepino[3,4-b]quinazolone and [1,4]diazepino[3,4-b]quinazolones. E.g., cyclization of quinazolone I (R = 4-MeOC6H4) gave [1,4]diazepino[3,4-b]quinazolone II.
 IT 172420-42-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of quinazolones, [1,4]oxazepino-, and [1,4]diazepino[3,4-b]quinazolones)
 RN 172420-42-7 CA
 CN 4(1H)-Quinazolinone, 2-(1-aminoethyl)- (9CI) (CA INDEX NAME)



L10 ANSWER 16 OF 19 CA COPYRIGHT 2005 ACS on STN (Continued)

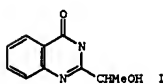


L10 ANSWER 16 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 124:86929 CA
 TITLE: Synthesis of potential CCK antagonist quinazolone derivatives
 AUTHOR(S): Szabo, Monika; Kokosi, Jozsef; Orfi, Laszlo
 CORPORATE SOURCE: Gyógyszertészeti Kémiai Intézet, Semmelweis Orvostudományi Egyetem, Budapest, Hung.
 SOURCE: Acta Pharmaceutica Hungarica (1995), 65(4), 133-8
 CODEN: APHGAO; ISSN: 0001-6659
 PUBLISHER: Ifjúsági Lap- és Könyvkiadó Vállalat
 DOCUMENT TYPE: Journal
 LANGUAGE: Hungarian
 GI

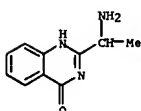


AB An original route has been found for the synthesis of [1,4]diazepinoquinazolones (e.g., I), a new ring system of heterocondensed quinazolones. These anthranilic acid-alanine-P-alanine cyclopeptide derivs. constitute a structural moiety of asperlicin, the first natural cholecystokinin antagonist alkaloid. These compds. are therefore potential CCK antagonists. The new compds. were prepared via condensation of 2-(aminoalkyl)quinazolones, obtained from 2-alkylquinazolones by side-chain substitution, with 1,3-bifunctional reagents. We studied the cyclization process under basic, acidic and phase-transfer catalyzed conditions. The structures of the synthesized compds. were characterized by IR, UR and NMR spectroscopy.
 IT 172420-42-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of [1,4]diazepinoquinazolones as potential CCK antagonists)
 RN 172420-42-7 CA
 CN 4(1H)-Quinazolinone, 2-(1-aminoethyl)- (9CI) (CA INDEX NAME)

L10 ANSWER 17 OF 19 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 113:171734 CA
 TITLE: Synthesis of chrysogine, a metabolite of Penicillium chrysogenum and some related 2-substituted 4-(3H)-quinazolinones
 AUTHOR(S): Bergman, Jan; Brynolf, Anna
 CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Swed.
 SOURCE: Tetrahedron (1990), 46(4), 1295-310
 CODEN: TETRAH; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 113:171734
 GI



AB Both enantiomers of chrysogine (I) were prepared from 2-H2NCGH4CONH2 (II). Thus reaction of II and (-)-AcOCHMeCOCl gave (-)-2-AcOCHMeCONHCGH4CONH2 which upon saponification and cyclization induced by aqueous Na2CO3 at room temperature gave (S)-(-)-I. The enantiomeric purity of (S)-(-)-I was determined by NMR. Inversion of (-)-(-)-I using the Mitsunobu reaction, gave (+)-(-)-I. Reduction of 2-acetyl-4-(3H)-quinazolinone with baker's yeast gave (S)-(-)-I. The cyclization method could be extended to a number of 2-(α-hydroxy)alkyl-4-(3H)-quinazolinones.
 IT 172420-42-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and trifluoroacetylation of)
 RN 172420-42-7 CA
 CN 4(1H)-Quinazolinone, 2-(1-aminoethyl)- (9CI) (CA INDEX NAME)



10/773,602

L10 ANSWER 18 OF 19 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3721855	A1	19880922	DE 1987-3721855	19870702
EP 286813	A2	19881019	EP 1988-102971	19880229
EP 286813	A3	19901212		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
AU 8912617	A1	19880915	AU 1988-12617	19880301
AU 614951	B2	19910919		
JP 63258451	A2	19881025	JP 1988-56504	19880311
ZA 8801782	A	19881026	ZA 1988-1782	19880311
HU 49147	A2	19890828	HU 1988-1191	19880311
HU 204848	B	19920228		

PRIORITY APPL. INFO.:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1987-3707879	A1	19870312		
DE 1987-3721855	A	19870702		

OTHER SOURCE(S):

MARPAT 110:135739

AB X-2-NR2-CHR3-CR4-(CHR5)n-CO-E-NR6-D [I; X = H, R1O(CH2)mCO, R1SO2, etc.; Z = 0-4 amino acid residues chosen from Abu, Ada, Ala, β -Ala, Arg, Asn, Asp, Bia, Cal, Dab, Gln, Glu, Gly, His, N(i.m.)-alkyl-His, Ile, Leu, tert-Leu, Lys, Met, α -Nal, β -Nal, Nbg, Nle, Orn, Phe, Pro, Ser, Thr, Tic, Trp, Tyr, Val; E = 0-2 amino acid residues chosen from Abu, Ala, Cal, His, Ile, Leu, Met, Nle, Phe, Trp, Tyr, Val; D = CH2CH(OH)CH2OH, (CH2)2SO2R7, phenylalkyl, furylalkyl, thienylalkyl, pyridylalkyl, etc.; R1, R3 = H, aryl, arylalkyl, heterocyclyl, heterocyclylalkyl, (substituted) C3-7 cycloalkyl, etc.; R2, R5, R6 = H, alkyl; R4 = :0, (H,OH), (H,NH2); R7 = OH, alkoxy, amino; m = 0-5; n = 1, 2; z = 2-6; Bia = 3-(2-benzimidazolyl)alanyl; Cal = 3-cyclohexylalanyl; Dab = 2,4-diaminobutyl; α -Nal = α -naphthylalanyl; β -Nal = β -naphthylalanyl; Nbg = (2-norbornyl)glycyl; Tic = tetrahydroisoquinolinyl-1-carbonyl, useful as renin inhibitors (no data), were prepared 2-[15-(3S-Hydroxy-4S-(N-tert-butoxycarbonylphenylalanyl)histidylamino)-5-cyclohexylpentanoylamino]-3-methylbutyl]-3H-quinazolin-4-one was prepared by the solution phase method.

IT 119422-37-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as renin inhibitor intermediate)

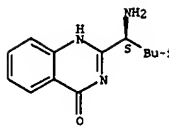
RN 119422-37-6 CA

CN 4(1H)-Quinazolinone, 2-(1-amino-3-methylbutyl)-, dihydrochloride, (S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 18 OF 19 CA COPYRIGHT 2005 ACS on STN

(Continued)



● 2 HCl

L10 ANSWER 19 OF 19 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI

94:175028 CA

Reactions of 2,3-disubstituted 4(3H)-quinazolinones and related compounds

Badr, M. Z. A.; El-Naggar, G. M.; El-Sherief, H. A. H. Fac. Sci., Assiut Univ., Assiut, Egypt

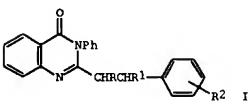
Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1980), 19B(10), 925-6

CODEN: IJSBDB; ISSN: 0376-4699

Journal

English

CASREACT 94:175028



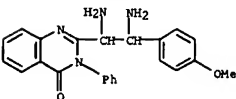
AB The arylidenequinazolines I (RR1 = bond, R2 = p-MeO, H, m-NO2, p-NO2) were brominated with Br2 to give I (R = R1 = Br). I (R = R1 = Br, R2 = p-MeO) underwent substitution reactions to give I (R = Br, R1 = AcO, MeO, EtO; R = R1 = H2N, piperidino, morpholino, PhO, PhS; R2 = p-MeO). I (RR1 = bond, R2 = p-MeO) was also obtained as an elimination product.

IT 77143-54-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 77143-54-5 CA

CN 4(3H)-Quinazolinone, 2-[1,2-diamino-2-(4-methoxyphenyl)ethyl]-3-phenyl-(9CI) (CA INDEX NAME)



10/773,602

=> file casreact

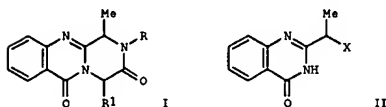
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L12 6 SEA SSS FUL L7 (17 REACTIONS)

=> d ibib abs rx 1-6

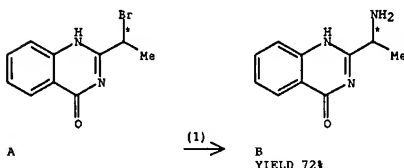
10/773,602

L12 ANSWER 1 OF 6 CASREACT COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:23488 CASREACT
 TITLE: A preparation of pyrazino[2,1-b]quinazolinone derivatives useful as multidrug resistance modulators
 AUTHOR(S): Kokosi, Jozsef; Almási, János; Podanyi, Benjamin; Hermeicz, Istvan
 CORPORATE SOURCE: Gyógyszerezési Kémiai Intézet, Semmelweis Egyetem, Budapest, Russia
 SOURCE: Acta Pharmaceutica Hungarica (2003), 73(1), 29-39
 CODEN: APHGAO; ISSN: 0001-6659
 PUBLISHER: Magyar Gyógyszerezési Társaság
 DOCUMENT TYPE: Journal
 LANGUAGE: Hungarian
 GI

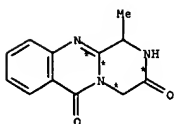
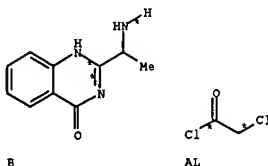


AB An exploration for new MDR-modulators utilizing pyrazino[2,1-b]quinazolones as scaffolds disclosed after systematic synthetic investigation highly hydrophobic N-substituted derive, as readily accessible active tricyclic compds. (no biol. data). A versatile synthesis of 2-substituted-1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazolinone-3,6-diones is presented starting from 2,3-substituted quinazolones. The new compds. have been characterized by elemental analyses, NMR, and in some cases by ¹³C ruler, and X-ray investigations. For instance, pyrazino[2,1-b]quinazolinone derivative I was prepared via amination of quinazolinone II [X = Br] by RNH₂, N-acetylation of the obtained amine II [X = NHR] by YCH(R1)C(O)Y (R1 is H or Me; Y is Cl or Br), and subsequent heterocyclization of the obtained amide II [X = N(R)C(O)C(Y)R1].

RX(1) OF 147 A ==> B...



L12 ANSWER 1 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)
 RX(92) OF 147 COMPOSED OF RX(18), RX(41)
 RX(92) B + AL ==> BO

BO
YIELD 88%

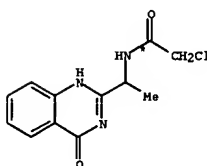
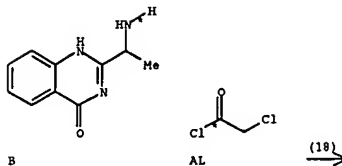
RX(18) RCT B 172420-42-7

STAGE(1)
SOL 67-66-3 CHCl₃STAGE(2)
RCT AL 79-04-9STAGE(3)
RGT AN 110-86-1 Pyridine
PRO AM 216596-07-5RX(41) RCT AM 216596-07-5
RGT S 141-52-6 NaOEt
PRO BO 204770-75-2
SOL 64-17-5 EtOH
NTE key step

L12 ANSWER 1 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

RX(1) RCT A 144189-81-1
RGT C 7664-41-7 NH₃
PRO B 172420-42-7
SOL 64-17-5 EtOH

RX(18) OF 147 ...B + AL ==> AM...

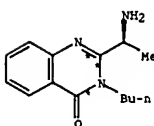
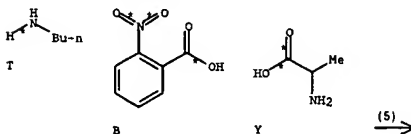
AM
YIELD 60%

RX(18) RCT B 172420-42-7

STAGE(1)
SOL 67-66-3 CHCl₃STAGE(2)
RCT AL 79-04-9STAGE(3)
RGT AN 110-86-1 Pyridine
PRO AM 216596-07-5

L12 ANSWER 2 OF 6 CASREACT COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 137:63215 CASREACT
 TITLE: Traceless synthesis of 3H-quinazolin-4-ones via a combination of solid-phase and solution methodologies
 AUTHOR(S): O'Mahony, Donogh J. R.; Krchnak, Viktor
 CORPORATE SOURCE: SIDDCO, Inc., Tucson, AZ, 85747, USA
 SOURCE: Tetrahedron Letters (2002), 43(6), 939-942
 CODEN: TETLEA; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A solid-phase traceless synthesis of 4-quinazolinones is described. An aldehyde functionalized resin was reductively aminated with primary amines, and the resin-bound secondary amine acylated with o-nitro-benzoic acids. The nitro group was reduced with tin(II) chloride, and the aniline acylated with acid anhydrides. Acidolytic cleavage afforded a diamide, which was cyclized in solution phase to the 4-(3H)-quinazolinone removing the trace of the linker. Com. available polymer-bound 4-(4-formyl-3-methoxyphenoxy)-N-methylbutanamide was reductively aminated with 4-morpholinepropanamine, benzenesethanamine, 1-butanamine, 3-pyridinemethanamine or benzenemethanamine. The subsequent acylation of the intermediate amine was carried out using 2-nitrobenzoic acid, 5-(acetyl amino)-2-nitrobenzoic acid or 4,5-dimethoxy-2-nitrobenzoic acid.

RX(5) OF 7 T + B + Y ==> E

E
YIELD 19%

RX(5) RCT T 109-73-9, B 552-16-9

STAGE(1)
RGT E 693-13-0 i-PrN:C:NPr-i, F 2592-95-2 1-Benzotriazolol
SOL 68-12-2 DMF

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L12 ANSWER 2 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

STAGE(2)

RGT G 7772-99-8 SnCl₂, H 7087-68-5 EtN(Pr-i)₂
 SOL 872-50-4 NMEP

STAGE(3)

RCT Y 56-41-7
 RGT E 693-13-0 i-PrN:C:NPr-i, I 110-86-1 Pyridine
 SOL 123-91-1 Dioxane

STAGE(4)

RGT J 7664-39-3 HF

STAGE(5)

RGT X 75-77-4 Me₃SiCl, L 598-56-1 Et₃NMe₂
 SOL 75-05-8 MeCN

PRO 2 439862-07-4

NTE solid-supported reaction

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 6 CASREACT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 130:38348 CASREACT

TITLE: Nitrogen bridgehead compounds. Part 90. An efficient versatile synthesis of 1-methyl-2-substituted 1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazoline-3,6-diones

AUTHOR(S): Kokosi, Jozsef; Almási, Janos; Podanyi, Benjamin; Feher, Miklos; Bocskai, Zsolt; Simon, Kalman; Hermecz, Istvan

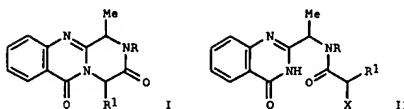
CORPORATE SOURCE: Institute for Pharmaceutical Chemistry Semmelweis University of Medicine, Budapest, 1092, Hung.

SOURCE: Heterocycles (1998), 48(9), 1851-1866

CODEN: HETCYM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

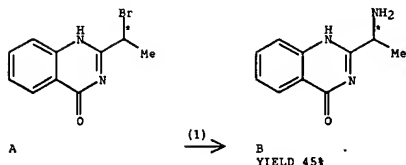
DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB A versatile synthesis of 2-substituted 1-methyl- and 1,4-dimethyl-1,2,3,4-tetrahydro-6H-pyrazino[2,1-b]quinazoline-3,6-diones I (R = H, Et, Ph, etc., R₁ = H, Me) is presented, starting from 2-(1-bromoethyl)quinazolin-4(3H)-one. The key step of the reaction sequence is the diastereoselective cyclization of 2-[[1-(N-2-halocetyl)-N-substituted amino]ethyl]quinazolin-4(3H)-ones II (R₁ = H, X = Cl; R₁ = Me, X = Br). Usually 1,4-di-Me derivs. are obtained as pure racemic cis-compds. (2-alkyl and 2-benzyl derivs.), or a mixture of diastereomers, containing the 4-Me group in quasi-axial position.

RX(1) OF 100 A ==> B...

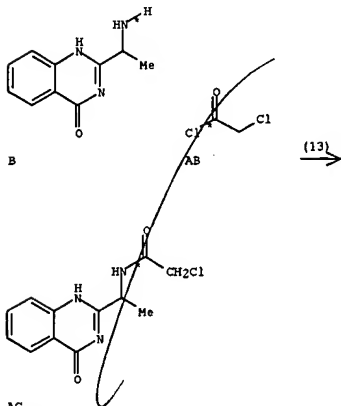
L12 ANSWER 3 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)



RX(1)

RCT A 144189-81-1
 RGT C 7664-41-7 NH₃
 PRO B 172420-42-7
 SOL 64-17-5 EtOH
 NTE Et, Pr, and Bu analogs similarly prepd. in 75-77% yields

RX(13) OF 100 ...B + AB ==> AC...



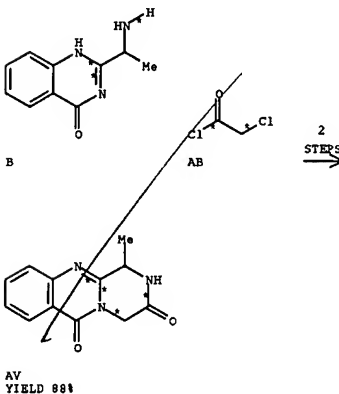
AC
 YIELD 60%

RX(13) RCT B 172420-42-7, AB 79-04-9
 RGT AD 110-86-1 Pyridine

L12 ANSWER 3 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

PRO AC 216596-07-5
 SOL 67-66-3 CHCl₃

RX(60) OF 100 COMPOSED OF RX(13), RX(27)
 RX(60) B + AB ==> AV



AV
 YIELD 88%

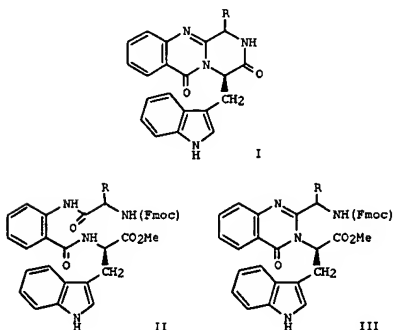
RX(13) RCT B 172420-42-7, AB 79-04-9
 RGT AD 110-86-1 Pyridine
 PRO AC 216596-07-5
 SOL 67-66-3 CHCl₃

RX(27) RCT AC 216596-07-5
 RGT AW 141-52-6 NaOEt
 PRO AV 204770-75-2
 SOL 64-17-5 EtOH

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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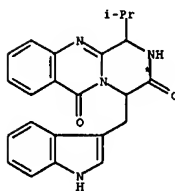
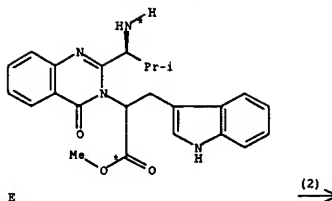
L12 ANSWER 4 OF 6 CASREACT COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 128:257597 CASREACT
 TITLE: Total Synthesis of the Quinazoline Alkaloids
 (-)-Fumiquinazoline G and (-)-Fiscalin B
 AUTHOR(S): Wang, Haishan/ Ganesan, A.
 CORPORATE SOURCE: Institute of Molecular and Cell Biology, National
 University of Singapore, Singapore, 117609, Singapore
 SOURCE: Journal of Organic Chemistry (1998), 63(8), 2432-2433
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB (-)-Fumiquinazoline G (I; R = β -Me) and (-)-fiscalin B (I; R = α -CHMe₂) were synthesized in four and five steps resp. from D-tryptophan Me ester. The key transformation involved dehydrative cyclization of linear tripeptides II (Fmoc = 9-fluorenylmethoxycarbonyl, R = β -Me, α -CHMe₂, resp.) to quinazolin-4-ones III. The methodol. is also applicable to the synthesis of quinazolinones with sterically bulky 2,3-substitution.

RX(2) OF 20 E ==> F

L12 ANSWER 4 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)



YIELD 72%

RX(2) RCT E 205042-99-5

STAGE(1)

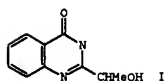
RGT C 110-89-4 Piperidine
SOL 75-09-2 CH₂Cl₂

STAGE(2)

RGT G 1122-58-3 4-DMAP
SOL 75-05-8 MeCN
PRO F 149008-35-5
NTE 2nd stage reflux

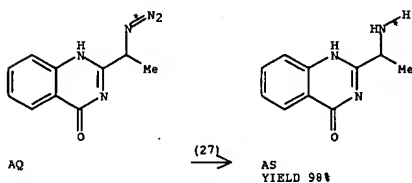
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 113:171734 CASREACT
 TITLE: Synthesis of chrysogine, a metabolite of Penicillium chrysogenum and some related 2-substituted 4-(3H)-quinazolinones
 AUTHOR(S): Bergman, Jan/ Brynolf, Anna
 CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Sued.
 SOURCE: Tetrahedron (1990), 46(4), 1295-310
 CODEN: TETRAH; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



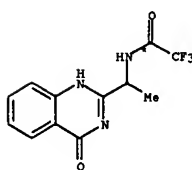
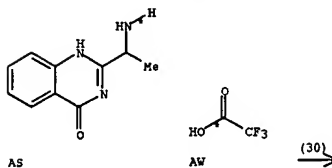
AB Both enantiomers of chrysogine (I) were prepared from 2-H₂NCH₂CONH₂ (II). Thus reaction of II and (-)-AcOCHMeCOCl gave (-)-2-AcOCHMeCONHCH₂CONH₂ which upon saponification and cyclization induced by aqueous Na₂CO₃ at room temperature gave (S)-(-)-I. The enantiomeric purity of (S)-(-)-I was determined by NMR. Inversion of (-)-(-)-I using the Mitsunobu reaction, gave (+)-(R)-I. Reduction of 2-acetyl-4-(3H)-quinazolinone with baker's yeast gave (S)-(-)-I. The cyclization method could be extended to a number of 2-(α -hydroxy)alkyl-4-(3H)-quinazolinones.

RX(27) OF 82 ...AQ ==> AS...

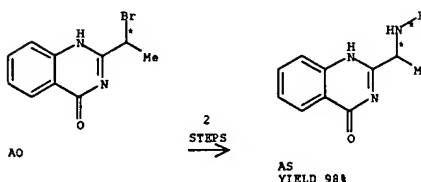
RX(27) RCT AQ 129768-59-8
PRO AS 172420-42-7

RX(30) OF 82 ...AS + AW ==> AV

L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)



AV

RX(30) RCT AS 172420-42-7, AW 76-05-1
PRO AV 129768-62-3
CAT 144-55-8 NaHCO₃RX(52) OF 82 COMPOSED OF RX(26), RX(27)
RX(52) AO ==> AS

RX(26) RCT AO 144189-81-1

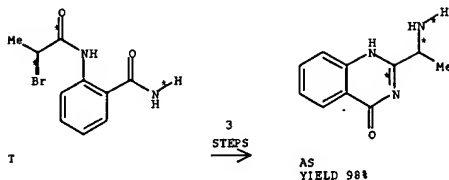
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L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

RCT AR 26628-22-8 NaN3
PRO AQ 129768-59-8

RX (27) RCT AQ 129768-59-8
PRO AS 172420-42-7

RX (72) OF 82 COMPOSED OF RX (24), RX (26), RX (27)
RX (72) T ==> AS

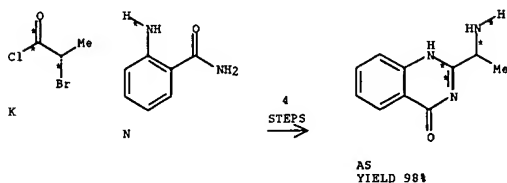


RX (24) RCT T 129831-32-9
PRO AO 144189-81-1
CAT 104-15-4 TsOH

RX (26) RCT AO 144189-81-1
RGT AR 26628-22-8 NaN3
PRO AQ 129768-59-8

RX (27) RCT AQ 129768-59-8
PRO AS 172420-42-7

RX (73) OF 82 COMPOSED OF RX (11), RX (24), RX (26), RX (27)
RX (73) K + N ==> AS



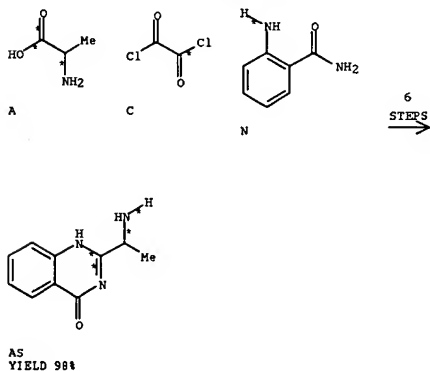
L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

CAT 104-15-4 TsOH

RX (26) RCT AO 144189-81-1
RGT AR 26628-22-8 NaN3
PRO AQ 129768-59-8

RX (27) RCT AQ 129768-59-8
PRO AS 172420-42-7

RX (79) OF 82 COMPOSED OF RX (3), RX (6), RX (11), RX (24), RX (26), RX (27)
RX (79) A + C + N ==> AS



RX (3) RCT A 56-41-7
PRO E 32644-15-8

RX (6) RCT E 32644-15-8, C 79-37-8
PRO K 22592-73-0

RX (11) RCT K 22592-73-0, N 88-68-6
PRO T 129831-32-9

RX (24) RCT T 129831-32-9
PRO AO 144189-81-1
CAT 104-15-4 TsOH

RX (26) RCT AO 144189-81-1
RGT AR 26628-22-8 NaN3
PRO AQ 129768-59-8

RX (27) RCT AQ 129768-59-8

L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

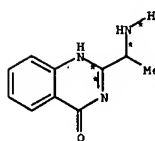
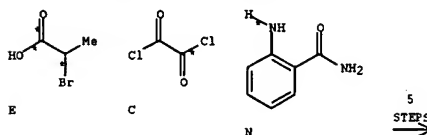
RX (11) RCT K 22592-73-0, N 88-68-6
PRO T 129831-32-9

RX (24) RCT T 129831-32-9
PRO AO 144189-81-1
CAT 104-15-4 TsOH

RX (26) RCT AO 144189-81-1
RGT AR 26628-22-8 NaN3
PRO AQ 129768-59-8

RX (27) RCT AQ 129768-59-8
PRO AS 172420-42-7

RX (78) OF 82 COMPOSED OF RX (6), RX (11), RX (24), RX (26), RX (27)
RX (78) E + C + N ==> AS



RX (6) RCT E 32644-15-8, C 79-37-8
PRO K 22592-73-0

RX (11) RCT K 22592-73-0, N 88-68-6
PRO T 129831-32-9

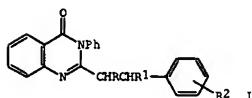
RX (24) RCT T 129831-32-9
PRO AO 144189-81-1

L12 ANSWER 5 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)

PRO AS 172420-42-7

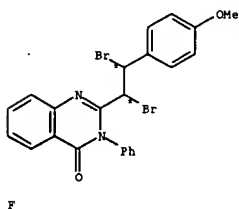
10/773,602

L12 ANSWER 6 OF 6 CASREACT COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 94:175028 CASREACT
 TITLE: Reactions of 2,3-disubstituted 4(3H)-quinazolinones and related compounds
 AUTHOR(S): Badr, M. Z. A.; El-Naggar, G. M.; El-Sherief, H. A. H.
 CORPORATE SOURCE: Fac. Sci., Assiut Univ., Assiut, Egypt
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1980), 19B(10), 925-6
 CODEN: IJSCDD; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The arylidenequinazolinones 1 (RR1 = bond, R2 = p-MeO, H, m-NO2, p-NO2) were brominated with Br2 to give 1 (R = R1 = Br), 1 (R = R1 = Br, R2 = p-MeO) underwent substitution reactions to give 1 (R = Br, R1 = AcO, MeO, EtO; R = R1 = H2N, piperidino, morpholino, PhO, PhS; R2 = p-MeO). 1 (RR1 = bond, R2 = p-MeO) was also obtained as an elimination product.

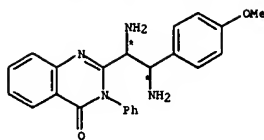
RX(12) OF 25 ...F ==> Q



(12) →

L12 ANSWER 6 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)
 RX(7) RCT G 77143-59-0
 RGT C 7726-95-6 Br2
 PRO F 77143-47-6
 RX(12) RCT F 77143-47-6
 RGT R 7664-41-7 NH3
 PRO Q 77143-54-5

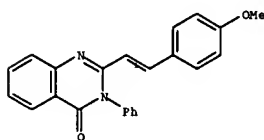
L12 ANSWER 6 OF 6 CASREACT COPYRIGHT 2005 ACS on STN (Continued)



Q

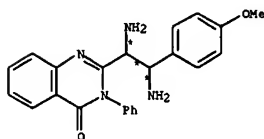
RX(12) RCT F 77143-47-6
 RGT R 7664-41-7 NH3
 PRO Q 77143-54-5

RX(21) OF 25 COMPOSED OF RX(7), RX(12)
 RX(21) G ==> Q



G

2
 STEPS
 →



Q

10/773,602

=> d his

(FILE 'HOME' ENTERED AT 09:24:32 ON 19 APR 2005)

FILE 'REGISTRY' ENTERED AT 09:25:50 ON 19 APR 2005

L1 STRUCTURE UPLOADED

L2 0 S L1 SAM

L3 1 S L1 FULL

FILE 'CA' ENTERED AT 09:26:26 ON 19 APR 2005

L4 1 S L3

FILE 'CASREACT' ENTERED AT 09:26:37 ON 19 APR 2005

L5 0 S L1

L6 0 S L1 FULL

L7 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 09:27:51 ON 19 APR 2005

L8 1 S L7

L9 23 S L7 FULL

FILE 'CA' ENTERED AT 09:28:11 ON 19 APR 2005

L10 19 S L9

FILE 'CASREACT' ENTERED AT 09:28:31 ON 19 APR 2005

L11 1 S L7 SAM

L12 6 S L7 FULL